

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A high-voltage component comprising a first end (1) and a second end (2), wherein under operating conditions the first end (1) is on a high-voltage potential with respect to the second end (2),

comprising an insulating part (3; 9, 11, 12), which is arranged between the first end (1) and the second end; and

comprising at least one optical fiber (4), which is integrated in the high-voltage component and which extends from the first end (1) to the second end (2),

characterised

~~in that~~ wherein the high-voltage component comprises at least one capillary (5), which extends from the first end (1) to the second end (2) and which is arranged within the insulating part (3; 9, 11, 12);

~~in that~~ wherein the inside diameter of the capillary (5) exceeds the outside diameter of the fiber (4);

~~in that~~ wherein the fiber (4) is arranged within the capillary (5); and

~~in that~~ wherein the capillary (5) comprises a protective medium (6) to achieve a dielectric strength in the capillary (5), which dielectric strength is suitable for the operating conditions.

2. (Currently Amended) The high-voltage component according to claim 1, characterised in that wherein the outside of the capillary (5) is enclosed by a capillary coating (8) in order to protect said capillary (5) against mechanical stress.

3. (Currently Amended) The high-voltage component according to ~~one of the preceding claims~~ claim 1, characterised in that wherein the capillary (5) is designed and arranged in the insulating part (3; 9, 11, 12) such that thermo-mechanical stress, which under operating conditions is exerted on said capillary (5) by the insulating part (3; 9, 11, 12), leaves it undamaged, and/or

~~in that~~ wherein the capillary (5) is designed and arranged in the insulating part (3; 9, 11, 12) such that thermo-mechanical stress, which the insulating part (3; 9, 11, 12) exerts on the capillary during the curing process of the insulation part (3; 9, 11, 12), leaves it undamaged.

4. (Currently Amended) The high-voltage component according to claim 1, characterised in that wherein the fiber (4) is a polarisation-maintaining fiber (4), in particular a fiber comprising an elliptic core, a fiber comprising an inner elliptic jacket, a bowtie fiber or a panda fiber.

5. (Currently Amended) The high-voltage component according to ~~any one of the preceding claims~~ claim 1, characterised in that wherein the fiber (4) comprises a fiber coating (7).

6. (Currently Amended) The high-voltage component according to ~~any one~~ of the preceding claims claim 1, characterised in that wherein the fiber (4) is exchangeable without there being any need to change the insulating part (3; 9, 11, 12).

7. (Currently Amended) The high-voltage component according to ~~any one~~ of the preceding claims claim 1, wherein the high-voltage component comprises an insulation body (9) which extends from the first end (1) to the second end (2), characterised in that wherein the insulation body (9) differs from the insulating part (3; 11, 12) in that wherein the capillary (5) is arranged in a spiral shape along the insulation body (9), and in particular in that wherein the insulation body (9) is wrapped by an intermediate layer (10), and the intermediate layer (10) is arranged between the insulation body (9) and the capillary (5).

8. (Currently Amended) The high-voltage component according to ~~any one~~ of the preceding claims claim 1, characterised in that wherein the high-voltage component comprises a current sensor and/or a voltage sensor (13).

9. (Currently Amended) The high-voltage component according to ~~any one~~ of the preceding claims claim 1, characterised in that wherein the insulating part (3; 9, 11, 12) is a form of shielding (11) and/or an insulation filler (12) and/or an insulation body (9).

10. (Currently Amended) The high-voltage component according to ~~any one~~ of the preceding claims claim 1, ~~characterised in that~~ wherein the high-voltage component is a high-voltage insulator, a high-voltage leadthrough, a high-voltage arrester or a high-voltage switch.

11. (Currently Amended) A method for producing a high-voltage component comprising a first end (4) and a second end (2), wherein under operating conditions the first end (4) is on a high-voltage potential with respect to the second end (2), and comprising an insulating part (3; ~~9, 11, 12~~), which is arranged between the first end (4) and the second end (2),

~~characterised~~

~~in that~~ wherein between the first end (4) and the second end (2) within the insulating part (3; ~~9, 11, 12~~) at least one capillary (5) is arranged to accommodate at least one optical fiber (4); and

~~in that~~ wherein a protective medium (6) is placed in the capillary to achieve a dielectric strength in the capillary, which dielectric strength is suitable for the operating conditions.

12. (Currently Amended) The production method according to claim 11, ~~characterised in that~~ wherein the fibre fiber (4), of which there is at least one, is placed in the capillary (5).

13. (Currently Amended) The production method according to ~~one of claims~~ claim 11 or 12, ~~characterised in that~~ wherein a capillary coating (8) is applied to the

outside of the capillary (5) before the capillary (5) is arranged within the insulating part (3; 9, 11, 12).

14. (Currently Amended) The production method according to ~~any one of~~ claims claim 11 to 13, wherein the high-voltage component comprises an insulation body (9) which extends from the first end (1) to the second end (2), ~~characterised in that~~ wherein the insulation body (9) differs from the insulating part (3; 11, 12) ~~in that~~ wherein the capillary (5) is arranged in a spiral shape along the insulation body (9), and in particular ~~in that~~ wherein the insulation body (9) is wrapped by an intermediate layer (10), and then the capillary (5) is arranged in a spiral shape along the insulation body (9), which is wrapped by the intermediate layer (10), so that the intermediate layer (10) is arranged between the capillary (5) and the insulation body (9).

15. (Currently Amended) The production method according to ~~any one of~~ claims claim 11 to 14, ~~characterised in that~~ wherein the capillary (5) is arranged within the insulating part (3; 9, 11, 12) prior to a curing process of the insulating part (3; 9, 11, 12) taking place.

16. (Currently Amended) The production method according to ~~any one of~~ claims claim 11 to 15, ~~characterised in that~~ wherein the fiber (4) is placed in the capillary (5) before the capillary (5) is arranged within the insulating part (3; 9, 11, 12).

17. (Currently Amended) The production method according to ~~any one of~~ ~~claims claim~~ 11 to 15, characterised in that wherein the fiber (4) is placed in the capillary (5) after the capillary (5) is arranged within the insulating part (3; 9, 11, 12), and/or in that wherein the fiber (4) is placed in the capillary (5) in such a way that it is exchangeable.